

# List of All Chemicals

## P Garcinia cambogia (Clusiaceae)

### Common name(s)

Garcinia; Malabar Tamarind; Brindleberry

### How used

Medicinal

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
(-)ALPHA-HYDROXYCITRIC-ACID	Pericarp	--	--		Mizusaki, S., Hashimoto, K., Sudo, S., Hasegawa, M. 1998. Obesity Preventive Agents Containing Extracts of Garcinia cambogia and Mulberry Tree. Patent-Japan Kokai Tokyo Koho-10 265,397: 4 pp.
(-)HYDROXYCITRIC ACID	Fruit	--	--	*	
(-)HYDROXYCITRIC ACID	Pericarp	160000.0	180000.0		Jayaprakasha, G. K., Sakariah, K. K. 1998. Determination of Organic Acids in Garcinia cambogia (Desr.) by High-Performance Liquid Chromatography. J Chromatogr. 806(2): 337-339.
CAMBOGIN	Latex Exudate	--	55000.0		Rama Rao, A. V., Venkatswamy, G., Pendse, A. D. 1980. Camboginol and cambogin. Tetrahedron Lett 21: 1975-1978.
CITIRC ACID	Fruit	--	--	*	
GAMBOGIC-ACID	Plant	--	--		Ye, D. J., Wu, H., Hu, Y., Sheng, Z. Q. 1995. Gambogic acid content in gamboge and its processed product. Zhongguo Zhongyao Zazhi 20(10): 601.
<b>Activities (2)</b>					
Peristaltic					
Purgative					Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)
GARBOGIOL	Root	--	1.0		linuma, M., Ito, T., Miyake, R., Tosa, H., Tanaka, T., Chelladurai, V. 1998. A xanthone from Garcinia cambogia. Phytochemistry 47(6): 1169-1170.
GARCINOL	Bark	--	30.0	*	
<b>Activities (8)</b>					
Antibacterial					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antibiotic					
Antiglycation					
Antioxidant (1/2 tocopherol)					
Antiradicular					
Chelator					
Fungicide					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide					
GARCINOL	Latex Exudate	--	370000.0		Rama Rao, A. V., Venkatswamy, G., Pendse, A. D. 1980. Camboginol and cambogin. Tetrahedron Lett 21: 1975-1978.
<b>Activities (8)</b>					
Antibacterial					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antibiotic					
Antiglycation					
Antioxidant (1/2 tocopherol)					
Antiradicular					
Chelator					
Fungicide					Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide					
ISOGARCINOL	Bark	--	8.0		linuma, M., Ito, T., Miyake, R., Tosa, H., Tanaka, T., Chelladurai, V. 1998. A xanthone from Garcinia cambogia. Phytochemistry 47(6): 1169-1170.

NUCCINIC-ACID DAIK -- 500.0  
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MURATA, M., ITO, T., MIYAKE, R., TUSA, H., TANAKA, T., CHIYODA, Y. 1990. A Xanthone from Garcinia cambogia. *Phytochemistry* 47(6): 1169-1170.

SUCCINIC-ACID Fruit -- -- Lewis, Y. S., Neelakantan, S. 1965. (-)-hydroxycitric acid, the principle acid in the fruits of *Garcinia cambogia* Desr. *Phytochemistry* 4: 619-625.

#### Activities (7)

Additive FEMA 200-2,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Antifeedant	
Bruchiphobe	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Dye	Merck 11th Edition
Perfumery	Merck 11th Edition
Pesticide	

TARTARIC-ACID Fruit -- -- \*

#### Activities (6)

Acidifier	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Additive	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Antioxidant	Martindale's 29th
Synergist	
Flavor FEMA 500-10,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Irritant	Zebovitz, T. C. Ed. 1989, Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253.
Sequestrant	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry